Appendix C

DIRECT PUSH SOIL LOGS

| DRILLING LOG | DIVISION | | INSTALLA | | | | SHEE | т 1 | 7 |
|---|------------|--|--|------------------------------|------------------------------|------------------------------|---|--------------|----------|
| 1. PROJECT | USAC | E SPK SACRAMENTO | | LTON AA | | | OF 2 | 2 SHEETS | 3 |
| Northwest Alleged Disp | osal Area | | | AND TYPE O | | 3.74 in IOWN (TBM or MSL) | | | - |
| 2. LOCATION (Coordinates or Sta | ation) | | MSL | | | | | | |
| N 4,213,553.3 E 541,8 3. DRILLING AGENCY | 326.3 | | 12. MANU Direct | | S DESIGN | ATION OF DRILL | | | |
| VIRONEX | | | 13. TOTAL | NO. OF OV | /ERBURDE | | UNDIST | _ | 1 |
| HOLE NO. (As shown on drawing file number) | title and | HAAF-ADA-201 | | LES TAKEN | ODE DOV | 0 | | 2 | - |
| 5. NAME OF DRILLER | | 1 | | NUMBER C | | | 0 | | + |
| Brian McColgan 6. DIRECTION OF HOLE | | | | | | TARTED | COMPLETE | D | ┨ |
| VERTICAL INCLI | NED | DEG. FROM VERT. | 16. DATE | | | 11/19/2003 | 11/19 | 9/2003 | 4 |
| 7. THICKNESS OF OVERBURDE | :N | | | ATION TOP C | | +3.0 | | 00.0 | - |
| 8. DEPTH DRILLED INTO ROCK | | | 19. GEOL | | OVERT | OR BORING | | 80 % | 4 |
| 9. TOTAL DEPTH OF HOLE | | 16.0 | | | | im Crummett | | | ╛ |
| ELEVATION DEPTH LEGI | | CLASSIFICATION OF MATERIALS (Description) d | 6 | % CORE RECOV- ERY e | BOX OR SAMPLE NO. f | (Drilling time | EMARKS e, water loss, de etc., if significa | epth ant) | |
| +3.0 0.0 | | Soft Lean Clay: 85% Organic Fine | | е | ' | | g | | + |
| | Clay, | 15% Fine-grained Sand, Dark. | | | | | | | \vdash |
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| +2.0 1.0 | 2000 | Coff Lean Claus 700/ Digetic Fine C | Nav | | | | | | \vdash |
| | //// 25% F | Soft Lean Clay: 70% Plastic Fine C Fine-grained sand, 5% Organic Clay | | | | | | | \vdash |
| | Note: | Sulfur Odor from soil. | | | | | | | \vdash |
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| | Moist, | Soft Lean Clay: 60% Plastic Fine C Fine Sand, 5% Organic Clay. Dark | lay, | | | | | | \vdash |
| | yellow | -brown (4/4). | | | | | | | \vdash |
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| DRILLING | G LOG | (Cont SI | neet) | ELEVATION TOP OF HOLE 3.0 | | | | Hole No. HAA | F-ADA-201 |] |
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| PROJECT | | | | | INSTALLA | | | | SHEET 2 | 1 |
| Northwest | Alleged | Disposal | Area | | | LTON AAI | F (HAAF) |) REMARK | OF 2 SHEETS | 1 |
| ELEVATION | DEPTH | LEGEND | | CLASSIFICATION OF MATERIALS (Description) | • | % CORE RECOV- ERY | BOX OR SAMPLE NO. f | (Drilling time, water weathering, etc., if | loss, depth significant) | |
| а | b | <i>77777777</i> | Moist S | d Soft Lean Clay: 60% Plastic Fine C | lav | e | T T | g | | ⊢ |
| | _ | | 35% Fir | ne Sand, 5% Organic Clay. Dark | ,, | | | | | H |
| | _ | | yellow-t | prown (4/4). (continued) | | | | | | H |
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| -12.5 | 15.5 | | 14-1-1 | Def. 1000/ New Plantic Connects Offi | | | | | | ┢ |
| | |] | Dark Br | oft 100% Non-Plastic Organic Silt own (2/2). Note: Sulphur odor fror | n | | | | | |
| -13.0 | 16.0 | | soil. | | | | | | | L |
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Hole No. HAAF-ADA-202 INSTALLATION DIVISION DRILLING LOG USACE SPK SACRAMENTO HAMILTON AAF (HAAF) 2 SHEETS 1. PROJECT 10. SIZE AND TYPE OF BIT 3.74 in Northwest Alleged Disposal Area 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) MSL N 4,213,528.5 E 541,827.4 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY Direct Push VIRONEX 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED 4. HOLE NO. (As shown on drawing title and SAMPLES TAKEN 2 file number) HAAF-ADA-202 14. TOTAL NUMBER CORE BOXES 0 5. NAME OF DRILLER 15. ELEVATION GROUND WATER 2.8 Brian McColgan STARTED COMPLETED 6. DIRECTION OF HOLE 16. DATE HOLE 11/19/2003 11/19/2003 ☐ INCLINED DEG. FROM VERT. 17. ELEVATION TOP OF HOLE +3.0 7. THICKNESS OF OVERBURDEN 18. TOTAL CORE RECOVERY FOR BORING 80 % 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST 9. TOTAL DEPTH OF HOLE 16.0 Tim Crummett % CORE BOX OR REMARKS CLASSIFICATION OF MATERIALS **ELEVATION** DEPTH LEGEND RECOV-SAMPLE (Drilling time, water loss, depth (Description) ERY NO. weathering, etc., if significant) d е g +3.0 0.0 Soft Organic Clay. +2.0 1.0 Moist, Loose Silty Sand; 60% Fine Sand, 40% Non-plastic Fines, Yellow-Brown (5/6). 100 202-2 2.0 3.0 -1.0 4.0 Moist Soft, Lean Clay; 90% Plastic Fines, 10% Sand, Trace of Organic Matter, Brown (4/3)

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1836 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT
Northwest Alleged Disposal Area

HOLE NO.
HAAF-ADA-202

| DRILLING | LOG | (Cont SI | neet) | 3.0 | | | | Hole No. | HAAF | -ADA | -202 | |
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| PROJECT | | | | | INSTALLA | | | | 8 | SHEET | 2 | 1 |
| Northwest | Alleged | Disposal | Area | | | TON AAF | F (HAAF) |) | CEMARKS | of 2 | SHEETS | |
| ELEVATION | DEPTH | LEGEND | | CLASSIFICATION OF MATERIALS (Description) | } | % CORE RECOV- ERY | BOX OR SAMPLE NO. f | R (Drilling tin weathering | ne, water k | oss, depth conificant) | | |
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| | _ | | Moist S | oft, Lean Clay; 90% Plastic Fines, and, Trace of Organic Matter, Brow | vn | | | | | | | L |
| | _ | | (4/3). (| continued) | *'' | | | | | | | L |
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| | _ | | | ose Silty Sand; 70% Fine Sand, 30 | 0% | 100 | 202-14 | | | | | |
| | | | Non-pla (Possib | astic Fines, Brown-Yellow (6/8) lly Decomposed Bedrock). | | | 14.0 15.0 | | | | | |
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Hole No. HAAF-ADA-203 INSTALLATION DIVISION DRILLING LOG USACE SPK SACRAMENTO HAMILTON AAF (HAAF) 2 SHEETS 1. PROJECT 10. SIZE AND TYPE OF BIT 3.74 in Northwest Alleged Disposal Area 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) MSL N 4,213,462.3 E 541,852.9 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY Direct Push VIRONEX 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED 4. HOLE NO. (As shown on drawing title and SAMPLES TAKEN 2 file number) HAAF-ADA-203 14. TOTAL NUMBER CORE BOXES 0 5. NAME OF DRILLER 15. ELEVATION GROUND WATER 2.8 Brian McColgan COMPLETED 6. DIRECTION OF HOLE 16. DATE HOLE 11/18/2003 11/18/2003 ☐ INCLINED DEG. FROM VERT. 17. ELEVATION TOP OF HOLE +3.0 7. THICKNESS OF OVERBURDEN 18. TOTAL CORE RECOVERY FOR BORING 80 % 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST 10.0 9. TOTAL DEPTH OF HOLE Tim Crummett % CORE BOX OR REMARKS CLASSIFICATION OF MATERIALS ELEVATION DEPTH LEGEND RECOV-SAMPLE (Drilling time, water loss, depth (Description) **ERY** NO. weathering, etc., if significant) d g +3.0 0.0 Moist Organic Clay. 100 203-0 0.0 1.0 +2.5 Moist, Loose Lean Clay, 80% Plastic Fines, 20% Organics, Dark Brown (3/3). 0.0 Moist, Loose Lean Clay, 95% Plastic Fines, 5% Organics, with Fine-grained Sand, Dark Brown (3/3). 100 203-6 6.0 7.0 -4.0 7.0 Wet, Soft, Silt; Dark Grey (4/1).

| DRILLING | G LOG (| (Cont S | heet) | ELEVATION TOP OF HOLE 3.0 | | | | Hole No. | HAAF- | ADA-20 | 3 |
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| PROJECT | | | _ | 0.0 | INSTALLA | | | | SH | IEET 2 | |
| Northwest | | | Area | CLASSIFICATION OF MATERIAL | | LTON AA | F (HAAF) | | REMARKS | 2 SHE | ETS |
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| а | b | C T | Wet. Sc | oft, Silt; Dark Grey (4/1). (cont | inued) | e | f | | g | | + |
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| | _ | | Gravelly Drilling | y Greenstone (serpentine?). Not refused at approximately 10 Fee | e: t | | | | | | L |
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Hole No. HAAF-ADA-204 INSTALLATION DIVISION DRILLING LOG HAMILTON AAF (HAAF) USACE SPK SACRAMENTO 2 SHEETS 1. PROJECT 10. SIZE AND TYPE OF BIT 3.74 in Northwest Alleged Disposal Area 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) MSL N 4,213,437.6 E 541,853.0 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY Direct Push VIRONEX 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED 4. HOLE NO. (As shown on drawing title and SAMPLES TAKEN 2 file number) HAAF-ADA-204 14. TOTAL NUMBER CORE BOXES 0 5. NAME OF DRILLER 15. ELEVATION GROUND WATER 2.8 Brian McColgan COMPLETED 6. DIRECTION OF HOLE 16. DATE HOLE 11/18/2003 11/18/2003 ☐ INCLINED DEG. FROM VERT. 17. ELEVATION TOP OF HOLE +3.0 7. THICKNESS OF OVERBURDEN 18. TOTAL CORE RECOVERY FOR BORING 80 % 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST 9. TOTAL DEPTH OF HOLE 16.0 Tim Crummett % CORE BOX OR REMARKS CLASSIFICATION OF MATERIALS (Drilling time, water loss, depth weathering, etc., if significant) ELEVATION DEPTH LEGEND RECOV-SAMPLE (Description) **ERY** NO. d g +3.0 0.0 Moist Organic Clay with Roots. +1.5 Moist, Soft Lean Clay: 85% Plastic Fine Clay, 10% Fine sand, 5% Organic Clay. Dark Grey-Brown (4/2). -1.0 4.0 Wet, Soft, Silt; 90% Fine Sand, 10% Fine-grained Sand, Trace of Organic Clay. Dark Grey (4/1). 100 204-6 5.0 6.0

| DRILLING | G LOG (Cont SI | neet) ELEVATION TOP OF HOLE 3.0 | | | Hole No. HAAF-ADA-204 | |
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| PROJECT | : Alleged Disposal | Area | INSTALLATION HAMILTON AA | E (HAAE) | SHEET 2 | 1 |
| ELEVATION | | CLASSIFICATION OF MATERIALS | S % CORE | BOX OR SAMPLE | REMARKS | 1 |
| a | DEPTH LEGEND | (Description) d | S % CORE RECOV- ERY e | NO. f | (Drilling time, water loss, depth weathering, etc., if significant) | l |
| ŭ. | | Wet, Soft, Silt; 90% Fine Sand, 10% Fine-grained Sand, Trace of Organic Cla Dark Grey (4/1). (continued) | | · | g | _ _ _ _ _ |
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| -7.5 | 10.5 | | | | | F |
| | | Wet, Soft, Silty Sand; 60% Fine-grained 40% Non Plastic Fines, Grey-Brown (5/2) Note: Broken Carbonate Shells present a |). | | | F |
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| | | Moist, Soft, Sandy Silt; 60% Silt, 40% Fine-grained Sand. Light Brown Grey (6 | 100 | 204-14 14.0 | | F |
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Hole No. HAAF-ADA-205 INSTALLATION DIVISION DRILLING LOG HAMILTON AAF (HAAF) USACE SPK SACRAMENTO 2 SHEETS 1. PROJECT 10. SIZE AND TYPE OF BIT 3.74 in Northwest Alleged Disposal Area 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 2. LOCATION (Coordinates or Station) MSL N 4,213,458.6 E 541,878.1 12. MANUFACTURER'S DESIGNATION OF DRILL 3. DRILLING AGENCY Direct Push VIRONEX 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED 4. HOLE NO. (As shown on drawing title and SAMPLES TAKEN 2 file number) HAAF-ADA-205 14. TOTAL NUMBER CORE BOXES 0 5. NAME OF DRILLER 15. ELEVATION GROUND WATER 2.8 Brian McColgan COMPLETED 6. DIRECTION OF HOLE 16. DATE HOLE 11/19/2003 11/19/2003 ☐ INCLINED DEG. FROM VERT. 17. ELEVATION TOP OF HOLE +3.0 7. THICKNESS OF OVERBURDEN 18. TOTAL CORE RECOVERY FOR BORING 80 % 8. DEPTH DRILLED INTO ROCK 19. GEOLOGIST 9. TOTAL DEPTH OF HOLE 14.0 Tim Crummett % CORE BOX OR REMARKS CLASSIFICATION OF MATERIALS (Drilling time, water loss, depth weathering, etc., if significant) ELEVATION DEPTH LEGEND RECOV-SAMPLE (Description) **ERY** NO. d g +3.0 0.0 Organic Top Soil with Root matter. +2.0 1.0 Moist, Soft Lean Clay: 70% Plastic Fine Clay, 30% Organic Clay. Dark Grey-Brown (4/2). +0.5 Moist Clayey Sand; 70% Medium to Fine-grained Sand, 30% plastic clay, Tace of Organic, Dark Yellow-Brown (4/4). 100 205-6 -3.3 63 6.0 Wet, Soft, Silt; 90% Fine Sand, 10% 7.0 Fine-grained Sand, Trace of Organic Clay. Dark Grey (4/1).

| DRILLING | GLOG | (Cont SI | heet) | ELEVATION TOP OF HOLE 3.0 | | | | Hole No. HAAF-ADA-205 | 1 |
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| PROJECT | | | | 0.0 | INSTALLA | | | SHEET 2 | 1 |
| Northwest | | | Area | CLASSIFICATION OF MATERIALS | | LTON AAI | F (HAAF) | REMARKS | 5 |
| ELEVATION | DEPTH | LEGEND | | (Description) | , | % CORE RECOV- ERY | BOX OR SAMPLE NO. f | (Drilling time, water loss, depth weathering, etc., if significant) | |
| а | b | C | Wet So | oft, Silt; 90% Fine Sand, 10% | | e | f | g | + |
| | _ | 1111 | Fine-gra | ained Sand, Trace of Organic Cla | y. | | | | \vdash |
| -5.5 | 8.5 | , , , , , , , , , , , , , , , , , , , | | rey (4/1). (continued) | | | | | \vdash |
| | | | Fine Sa | Moist, Soft Sandy Lean Clay; 60% and, 40% Plastic Fine Clay. Gray | (6/1). | | | | |
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| | | | 40% Pla hit Bedr | astic Fines, Brown (4/3). Note: Drock at 16 feet. | iller | | 14.0 15.0 | | |
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| ENG FORM | 1036 | ^ | <u> </u> | | | PROJECT | | HOLE NO. | |

| DBILLI | NG LOG | | SION | | INSTALLA | | | Troic ito. | SHEET | 1 | Ť |
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| | NG LOG | U | SACE | SPK SACRAMENTO | | LTON AA | | - | of 2 | SHEETS | s |
| 1. PROJECT | Allogod Dio | nocal | Aroo | | | AND TYPE O | | 3.74 in | | | _ |
| 2. LOCATION (| Alleged Dis | | Area | | 11. DATU MSL | M FOR ELEV | ATION SH | IOWN (TBM or MSL) | | | 1 |
| N 4,213,4 | 47.2 E 541 | ,818.0 |) | | | FACTURER' | S DESIGN | ATION OF DRILL | | | ┨ |
| 3. DRILLING AC | | | | | | Push | | | | | ┛ |
| VIRONEX | s shown on drawi | na title ar | nd | 1 | | L NO. OF OV LES TAKEN | /ERBURDE | EN DISTURBED 0 | UNDISTUR | RBED 2 | 1 |
| file number) | is snown on drawn | ng mic ar | ,,, | HAAF-ADA-206 | | L NUMBER C | OPE BOY | | | | \dashv |
| 5. NAME OF DR | | | | | | ATION GROU | | | | | \dashv |
| Brian McC | | | | | 15. ELEV | ATION GROC | | | MPLETED | | \dashv |
| 6. DIRECTION | | LINED | | DEG. FROM VERT. | 16. DATE | HOLE | | 11/18/2003 | 11/18/2 | | |
| ▼ VERTICA | | LINED | | DEG. FROM VERT. | 17. ELEV | ATION TOP (| OF HOLE | +3.0 | | | 1 |
| | OF OVERBURE | | | | 18. TOTA | L CORE REC | COVERY F | OR BORING | | 80 % | % |
| | LED INTO ROC | K | | | 19. GEOL | OGIST | | | | | 1 |
| 9. TOTAL DEPT | TH OF HOLE | | | 8.0 | | N CORE | | im Crummett | IVO. | | ┨ |
| ELEVATION a | DEPTH LE | GEND c | | CLASSIFICATION OF MATERIALS (Description) d | 5 | % CORE RECOV- ERY e | BOX OR SAMPLE NO. f | | er loss, dept | th D | |
| +3.0 | 0.0 | | Moist (| Organic Top Soil with roots. | | | <u> </u> | 9 | | | + |
| +2.7 | 0.3 | | | | | | | | | | \vdash |
| | | | Dry, H | ard, Silty Sand; 70% Fine-grained 30% Non Plastic Fines, Brown-Yel | low | | | | | | \vdash |
| | | | | Note: Very Tough Drilling. | 1044 | | | | | | \vdash |
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| DRILLING | GLOG | (Cont S | heet) | ELEVATION TOP OF HOLE | | | | HILL NA HAAF ARA AAA | |
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| PROJECT | | (Oont O | 1000, | 3.0 | INSTALLA | TION | | Hole No. HAAF-ADA-206 | |
| Northwest | Alleged | Disposal | Area | | | LTON AA | F (HAAF) | OF 2 SHEETS | |
| ELEVATION | DEPTH | LEGEND | | CLASSIFICATION OF MATERIALS | 3 | % CORE RECOV- ERY | BOX OR SAMPLE NO. f | REMARKS (Drilling time, water loss, depth | |
| а | b | С | | (Description) d | | ERY e | NO. f | (Drilling time, water loss, depth weathering, etc., if significant) g | |
| -5.2 | 8.2 | W/W | Drilling | Refused at approximately 8 feet. | | | | , | |
| | | | Bedroc | k material. | | | | | |
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| ENG FORM | | _ | | | | PROJECT | | HOLE NO. | - |

| DRILLI | NGLO | G D | IVISION | | INSTALLA | | | - | SHEET | 1 |
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| 1. PROJECT | | | USACE | SPK SACRAMENTO | | LTON AA | | 3.74 in | of 2 | SHEETS |
| Northwest | Alleged | Disposa | al Area | | | | | 3.74 IN SHOWN (TBM or MSL) | | |
| 2. LOCATION (| Coordinates | or Station | 1) | | MSL | | | | | |
| N 4,213,4 3. DRILLING AC | | 541,878 | 3.9 | | 4 | | S DESIG | NATION OF DRILL | | |
| VIRONEX | | | | | | Push NO. OF OV | /ERBURI | DEN DISTURBED | UNDISTUR | RBED |
| 4. HOLE NO. (A file number) | s shown on | drawing title | and | UAAE ADA 207 | SAMP | LES TAKEN | | 0 | | 2 |
| 5. NAME OF DE | RILLER | | | HAAF-ADA-207 | | NUMBER C | | | | |
| Brian McC | Colgan | | | | 15. ELEVA | ATION GROU | | | OMPLETED | |
| 6. DIRECTION | | · · · · · · · · · · · · · · · · · · · | | | 16. DATE | HOLE | ľ | 11/19/2003 | 11/19/2 | |
| ▼ VERTICA | |] INCLINE | | DEG. FROM VERT. | 17. ELEVA | ATION TOP C | OF HOLE | | | |
| 7. THICKNESS | | | | | 18. TOTAI | CORE REC | OVERY | FOR BORING | | 80 % |
| DEPTH DRIL TOTAL DEPT | | | | 16.0 | 19. GEOL | OGIST | | Time Crumomodt | | |
| | | | _ | CLASSIFICATION OF MATERIALS | <u> </u> | % CORE | ВОХО | Tim Crummett | RKS | |
| ELEVATION a | DEPTH b | LEGENI c | | (Description) | , | RECOV- ERY e | SAMPL NO. f | E (Drilling time, wa weathering, etc. | , if significant, | th) |
| +3.0 | 0.0 | | Organ | ic Clay with Root Particles. | | | | | | |
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| +2.0 | 1.0 | | 3 | O-Bloom Oleva 050/ Blook's Fire C | N | | | | | \vdash |
| | _ | <i>\\\\\\</i> | 10% F | Soft Lean Clay: 85% Plastic Fine C ine sand, 5% Organic Clay. Dark | lay, | | | | | ⊢ |
| | _ | | | -Brown (4/4). | | | | | | F |
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| -3.0 | 6.0 | | Mo+ C | Soft Plastic Clay; 90% Plastic Fine 0 | Nav | | | | | \vdash |
| | _ | | 5% Fir | ne Sand, 5% Organic Clay. Dark | Jiay, | | | | | F |
| | _ | <i>\\\\\\</i> | Brown | | | | | | | F |
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| ENG FORM | 1836 | DREVIC | I IS EDITI | ONS ARE OBSOLETE | | PROJECT | | | HOLE | NO. |

| DDILLING | 21.00.40= | nt Chast | ELEVATION TOP OF HOLE | | | Hole No. H | |
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| | G LOG (Co | nt Sneet) | 3.0 | INIOTAL LATION | | Hole No. HAA | |
| ROJECT | Alleged Disp | posal Area | | INSTALLATION HAMILTON AA | F (HAAF) | | SHEET 2 OF 2 SHEETS |
| | | | CLASSIFICATION OF MATERIALS | | BOX OR SAMPLE | REMARK | S |
| ELEVATION | | SEND | (Description) | ERY | NO. f | (Drilling time, water weathering, etc., if | significant) |
| а | b //// | c ///// Wet. S | d oft Plastic Clay; 90% Plastic Fine C | e Dlav. | 1 | g | |
| | -//// | ///// 5% Fin | e Sand, 5% Organic Clay. Dark | | | | ŀ |
| | -//// | ///// Brown. | (continued) | | | | ŀ |
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| 11.0 | | Moist, | Stiff Sandy Clay; 60% Fine Sand, 4 | 0% 100 | 207-14 | | ı |
| | | ////// Plastic | Fine Clay. Gray (6/1). | | 14.0 15.0 | | [|
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| IG FORM JUN 67 | 1836-A | | | DPO JECT | | ed Disposal Area | HOLE NO. HAAF-ADA-: |

Hole No. ΗΔΔΕ-ΔΠΔ-208

| | | DIV | ISION | | INSTALLA | TION | | | Hole No. 11 | SHEET | 1 | ĺ |
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| | NG LOG | | | SPK SACRAMENTO | 1 | LTON AA | F (HA | AF) | | of 2 | | |
| 1. PROJECT | | | | | 10. SIZE | AND TYPE O | F BIT | 3 | 3.74 in | | | 1 |
| | Alleged Disp | | Area | | | M FOR ELEV | /ATION | SHO | WN (TBM or MSL) | | | 1 |
| N 4,213,4 | Coordinates or St 08.3 E 541, | | 7 | | | | S DESIG | GNAT | TION OF DRILL | | | \mathbf{I} |
| 3. DRILLING AC | | | | | | Push | (EDD) 15 | | I DIOTUDDED I | NIDIOTIU | 2050 | |
| | As shown on drawin | g title a | nd | | 13. TOTAL SAMP | L NO. OF OV LES TAKEN | /ERBUR | RDEN | DISTURBED 0 | JNDISTUI | 2 2 | |
| 5. NAME OF DE | RILLER | | | HAAF-ADA-208 | 14. TOTAI | NUMBER C | ORE B | OXES | 0 | | | |
| Brian McC | Colgan | | | | 15. ELEVA | ATION GROU | JND WA | | | | |] |
| 6. DIRECTION | | | | | 16. DATE | HOLE | | STA | RTED COM 11/18/2003 | IPLETED 11/18/2 | | l |
| ▼ VERTICA | AL INCL | INED | | DEG. FROM VERT. | 17. FLEV | ATION TOP (| OF HOL | | +3.0 | 11/10/ | 2003 | 1 |
| 7. THICKNESS | OF OVERBURD | EN | | | | CORE REC | | | | | 80 % | 1 |
| 8. DEPTH DRIL | LED INTO ROCK | (| | | 19. GEOL | | | | | | 00 10 | 1 |
| 9. TOTAL DEPT | TH OF HOLE | | | 16.0 | | | | | n Crummett | | |] |
| ELEVATION | | END | | CLASSIFICATION OF MATERIALS (Description) | 3 | % CORE RECOV- ERY | SAMP NO. | LE | REMARI (Drilling time, wate weathering, etc., i | r loss, dep | | |
| +3.0 | 0.0 | پېپې | Organi | c Soil/Clay with Root Particles. | | е | f | \dashv | g | | | ⊢ |
| 10.0 | "" - | | Organi | c Soli/Olay With Root Farticles. | | | | | | | | H |
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| | 무워하 | | | rained Sand. Brown (4/3). | | | | | | | | F |
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| | | | Fine-g | rained Sand. Dark Grey (5/2). | | | | | | | | H |
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| ENG FORM MAR 71 | 1836 PR | EVIOU | S EDITIO | ONS ARE OBSOLETE. | | Northw | est Al | lege | d Disposal Area | HA | AF-ADA | 208 |

| און ווסר | 21.00.10cmt 85 | ELEVATION TOP OF HOLE | | | | AF-ADA-208 |
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| | G LOG (Cont Sh | eet) 3.0 | INIOTAL LATION | | Hole No. HAAI | F-ADA-208 |
| OJECT Northwest | : Alleged Disposal A | Area | INSTALLATION HAMILTON AA | F (HAAF) | | SHEET 2 OF 2 SHEETS |
| | | CLASSIFICATION OF MATERIALS | | BOX OR SAMPLE | REMARKS | 3 |
| LEVATION | DEPTH LEGEND | (Description) | RECOV- ERY | SAMPLE NO. | (Drilling time, water I weathering, etc., if s | oss. depth |
| а | b c | d | e | f | g | · · · · · · · · · · · · · · · · · · · |
| -5.2 | 8.2 | | | | | L |
| | | Wet, Loose, Sandy Silt; 80% Silt, 10% Cl | ay, | | | L |
| | | 10% Fine-grained Sand. Dark Grey (5/2) | | | | |
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| -9.0 | 12.0 | | | | | İ |
| | | Moist, Soft, Clay; 70% Plastic Fines, 30% | | | | İ |
| | | Fined-grained Sand, Olive Gray (5/2 5Y). | | | | İ |
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| DRILLI | NGLO | <u>. </u> | DIVISION | | INSTALLA | | | | | | SHEET | 1 | 7 |
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| 1. PROJECT | NO LO | | USACE | SPK SACRAMENTO | | LTON AA | | | | | of 2 | SHEETS | 3 |
| Northwest | Alleged | Dispos | al Area | | | AND TYPE O | | | 3.74 in. OWN (TBM or MSL) | | | | 4 |
| 2. LOCATION (| Coordinates | or Statio | n) | | MSL | W FOR ELEV | ATION | SHC | NVIN (TENTOT WISE) | | | | |
| N 4,213,4 | 08.3 E | 541,87 | 7.7 | | | | S DESI | GNA | TION OF DRILL | | | | 1 |
| 3. DRILLING AC | | | | | | : Push L NO. OF OV | /CDDI IC | חרו | DISTURBED | 1 | NDISTUR | DED | 4 |
| 4. HOLE NO. (A | | drawing tit | le and | | SAMP | LES TAKEN | ZEKBUR | OEI | 0 | 101 | | | |
| file number) | | | | HAAF-ADA-2081 | 14. TOTA | L NUMBER C | ORE B | OXE | s o | | | | 1 |
| 5. NAME OF DE Brian McC | | | | | 15. ELEV | ATION GROU | JND WA | TER | 2. | 8 | | | 1 |
| 6. DIRECTION | | | | | 16. DATE | HOLE | | STA | RTED | | PLETED | 2000 | 1 |
| VERTICA | AL |) INCLINE | D | DEG. FROM VERT | : | ATION TOP O | 2E HOI | _ | 11/18/2003 +3.0 | + | 11/18/2 | 2003 | - |
| 7. THICKNESS | OF OVERE | BURDEN | | | | L CORE REC | | | | | | 80 % | 6 |
| 8. DEPTH DRIL | LED INTO | ROCK | | | 19. GEOL | | JOVEIN | | TO DOTATE | | | - 00 / | Ť |
| 9. TOTAL DEPT | TH OF HOL | E | | 16.0 | | | | | m Crummett | | | | ╛ |
| ELEVATION | DEPTH | LEGEN | Ь | CLASSIFICATION OF MATERIAL (Description) | _S | % CORE RECOV- | BOX (| LE | (Drilling time | EMARK: e, water | loss, depti | h | |
| а | b | c | | (Description) | | ERY e | NO f | . | weathering, | etc., if s | significant) |) | |
| +3.0 | 0.0 | | Organ | ic Soil/Clay with Root Particles. | | | 0 | | No Samples | Collect | ted. | | |
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| | _ | | Moist, | Soft, Lean Clay; 5% Organic Part | icles, | 1 | | | | | | | \vdash |
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| PROJECT | | | | 3.3 | | INSTALLA | | | | 8 | HEET | 2 | |
| Northwest | | | Area | CLASSIFICATION OF | MATERIALS | | LTON AA % CORE | F (HAAF) | | REMARKS | | SHEETS | |
| ELEVATION | DEPTH | LEGEND | | (Description | on) | | % CORE RECOV- ERY | BOX OR SAMPLE NO. f | (Drilling til weatherin | me, water lo ng, etc., if si | oss, depth gnificant) | | |
| a | b | C C | Wet No | n-plastic and Plastic (| Clave Dark | | е | f | | g | | | |
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| 1. PROJECT | | | L | ISACE | SPK SACRAMENTO | | LTON AA | | | | | OF | 2 | SHEET | 3 |
| Northwest | Alleged | Disno | osal | Area | | | ND TYPE O | | | 3.74 in. WN (TBM or MSL) | | | | | 4 |
| 2. LOCATION (| Coordinates | or Sta | tion) | | | MSL | | | | | | | | | |
| N 4,213,4 3. DRILLING AC | SENCY | 54 I,C | 0//. | <i>'</i> | | Direct | | S DESIG | 3NA | TION OF DRILL | | | | | |
| VIRONEX 4. HOLE NO. (A | | drawing | title a | nd | I | 13. TOTAL SAMP | NO. OF OV LES TAKEN | ERBUR | DEN | DISTURBED 0 | ľ | JNDIS | TUR | | 1 |
| file number) | | | | | HAAF-ADA-2082 | 14. TOTAL | NUMBER C | ORE BO | OXE | | | | | <u> </u> | 1 |
| 5. NAME OF DE Brian McC | | | | | | 15. ELEVA | ATION GROU | | | | | | | | |
| 6. DIRECTION | OF HOLE | | | | | 16. DATE | HOLE | - 1 | STA | RTED 11/18/2003 | CON | 1PLE1 | | 003 | |
| ▼ VERTICA | | INCLI | | | DEG. FROM VERT. | 17. ELEV | ATION TOP O | DF HOLE | E | +3.0 | | 1 1/ | 10/2 | 003 | ┨ |
| 7. THICKNESS | | | N | | | 18. TOTAI | CORE REC | OVERY | ′ FO | R BORING | | | | 80 9 | % |
| DEPTH DRIL TOTAL DEPT | | | | | 16.0 | 19. GEOL | OGIST | | т:. | C************** | | | | | 7 |
| | | | | | CLASSIFICATION OF MATERIALS | <u> </u> | % CORE | вох с | DR | m Crummett | | | | | \dashv |
| ELEVATION a | DEPTH b | LEGE | | | (Description) | , | RECOV- ERY e | SAMPI NO. f | LE | (Drilling time, v weathering, et | vatei tc., if a | r loss, signifi | depth icant) |) | |
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| PROJECT Northwest | Alleged | Dis | posa | al Area | ea · | INSTALLA HAMII | TION LTON AAI | F (HAAF | | SHEET 2 OF 2 SHEETS |
| ELEVATION | DEPTH | | GENE | | CLASSIFICATION OF MATERIALS | | % CORE RECOV- ERY | BOX OR SAMPLE | REMARKS (Drilling time, water low weathering, etc., if si | nss denth |
| a | b | [[| C | | (Description) d | | ERY e | NO. f | weathering, etc., if si | gnificant) |
| a | Ŋ | \top | ŤΤ | Wet | et/Moist, Soft, Silt; 80% Non-plastic Fin | es, | e | <u> </u> | g | |
| | _ | 1 | | 10% | % Fine-grained Sand, 10% Organics, [ey (5/2). <i>(continued)</i> | Dark | | | | F |
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| 1. PROJECT | | 1 | ISACE | SPK SACRAMENTO | | LTON AA AND TYPE O | |) 3.74 in | of 2 | SHEETS |
| Northwest | Alleged D | Disposal | Area | | | | | OWN (TBM or MSL) | | |
| 2. LOCATION (| Coordinates | or Station) | | | MSL | | | | | |
| N 4,213,5 3. DRILLING AC | | 41,856. | 5 | | | FACTURER' Push | S DESIGNA | TION OF DRILL | | |
| VIRONEX | | | | | 13. TOTA | L NO. OF OV | /ERBURDEI | N DISTURBED | UNDISTURE | BED |
| 4. HOLE NO. (A file number) | s shown on dr | awing title a | nd | HAAF-ADA-209 | | LES TAKEN | | 0 | 2 | |
| 5. NAME OF DE | RILLER | | | 11AA1 -ADA-203 | | L NUMBER C | | | | |
| Brian McC | | | | | 15. ELEV | ATION GROU | | 2.0 | COMPLETED | |
| 6. DIRECTION (VERTICA | | NCLINED | | DEG. FROM VERT. | 16. DATE | HOLE | 1017 | 11/19/2003 | 11/19/20 | 003 |
| 7. THICKNESS | | | | DEG. PROM VERT. | 17. ELEV | ATION TOP (| OF HOLE | +3.0 | | |
| 8. DEPTH DRIL | | | | | | L CORE REC | OVERY FO | R BORING | | 80 % |
| 9. TOTAL DEPT | | | | 16.0 | 19. GEOL | .OGIST | Ti | m Crummett | | |
| | | | | CLASSIFICATION OF MATERIALS | L 3 | % CORE | BOX OR | REM | IARKS | - |
| ELEVATION a | DEPTH b | LEGEND c | | (Description) | | RECOV- ERY e | SAMPLE NO. f | weathering, et | water loss, depth tc., if significant) g | |
| +3.0 | 0.0 | | Moist, | Soft Lean Clay: 85% Plastic Fine C | Clay, | | ' | | 9 | |
| | | | 10% F | ine Sand, 5% Organic Clay. Dark -brown (4/4). | | | | | | 上 |
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| +1.8 | 1.3 | | | | | | | | | |
| | | | | Soft Lean Clay: 90% Plastic Fine C | Clay, | 1 | | | | L |
| | | | | ne sand, 5% Organic Clay. Dark brown (4/2). | | | | | | L |
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| | | | | Soft Lean Clay: 60% Plastic Fine C ine Sand, Trace Organic Clay. Da | | | | | | |
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| | G LOG (Cor | it Sneet) | 3.0 | INICTALL | TION | | Hole No. HA | AF-ADA-209 |
| OJECT Vorthwest | t Alleged Disp | osal Area | | INSTALLAT | | F (HAAF) | | SHEET 2 OF 2 SHEETS |
| | | | CLASSIFICATION OF MATERIALS | $\overline{}$ | % CORE | BOX OR | REMAR | RKS |
| EVATION | | END | (Description) | | % CORE RECOV- ERY | SAMPLE NO. f | (Drilling time, wat weathering, etc., | er Ioss, depth if significant) |
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| -5.3 | 8.3 — | | | | | | | |
| | - | Wet, S | Soft Clay: 90% Plastic Fine Clay, 10 Sand, Dark Brown (3/3). | % | | | | |
| | <u>-</u> | | Ballu, Dark Blowli (3/3). | | | | | |
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| -9.0 | 12.0 | | | | | | | |
| | | Moist | to Wet Soft Clay: 60% Plastic Fine | Clay, | | | | |
| | l 7/// | //// 40% F | ine Sand, Brown (4/3). | | | | | |
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| -12.0 | 15.0 | | | | | | | |
| | | Wet, S | Soft Clay: 90% Plastic Fine Clay, 10 | % | | | | |
| | | Fine S | Sand, Dark Brown (3/3). | | | | | |
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| -13.0 | 16.0 | | | | | | | |
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| FORM N 67 | 1836-A | | | - 1 | PROJECT | | d Disposal Area | HOLE NO. HAAF-ADA |

| DRILLI | NG LOC | <u> </u> | ISION | | INSTALLA | | | | SHEET | 1 | |
|----------------------------|----------------------|-----------------|---------|---|---|--------------------------|--------------------|--|---------------|------|----------|
| 1. PROJECT | USACE SPK SACKAMENTO | | | | NTO HAMILTON AAF (HAAF) 10. SIZE AND TYPE OF BIT 3.74 in 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) | | | | | | |
| | Alleged | Dienoeal | Δrea | | | | | | | | |
| 2. LOCATION (| Coordinates | or Station) | Alca | | MSL | W FOR ELEV | ATION SH | JVVIV (IBMI OF MISL) | | - 1 | |
| N 4,213,5 | | 541,812. | 9 | | | FACTURER' | S DESIGNA | ATION OF DRILL | | | |
| 3. DRILLING AC | | | | | | Push | | | | | |
| VIRONEX 4. HOLE NO. (A | | frawing title a | and | | 13. TOTA SAMP | L NO. OF OV LES TAKEN | /ERBURDE | N DISTURBED 0 | UNDISTUR 2 | | |
| file number) | | | | HAAF-ADA-210 | 14. TOTA | L NUMBER C | ORE BOXI | | | | |
| 5. NAME OF DE Brian McC | | | | | 15. ELEV | ATION GROU | JND WATE | | | | |
| 6. DIRECTION | | | | | 16. DATE | HOLE | ST | ARTED CC | MPLETED | | |
| ∨ERTICA | | INCLINED | | DEG. FROM VERT. | | | | 11/18/2003 | 11/18/2 | 2003 | |
| 7. THICKNESS | OF OVERB | URDEN | | | | ATION TOP (| | +3.0 | | | |
| 8. DEPTH DRIL | LED INTO F | ROCK | | | 18. TOTA 19. GEOL | CORE REC | COVERY FO | OR BORING | | 80 % | |
| 9. TOTAL DEPT | TH OF HOLE | E | | 16.0 | 19. GEOL | OGIST | Т | im Crummett | | - 1 | |
| ELEVATION. | DEDTU | LECEND | | CLASSIFICATION OF MATERIALS | 3 | % CORE RECOV- | BOX OR | REMAR | | | |
| ELEVATION a | DEPTH b | LEGEND c | | (Description) | | ERY e | SAMPLE NO. f | (Drilling time, wa weathering, etc., g | | | |
| +3.0 | 0.0 | | Moist. | Soft Lean Organic Clay | | - | <u> </u> | 9 | | | |
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| +2.0 | 1.0 | | | | | | | | | ŀ | _ |
| +2.0 | 1.0 | | Moist, | Soft, Sandy Lean Clay; 70% Plastic | 0 | | | | | ŀ | |
| | | | Fines, | 25% Fine-grained Sand, 5% Orga | nic, | | | | | ŀ | _ |
| | | | Dark E | Brown (3/3). | | | | | | ŀ | |
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| -4.0 | 7.0 | | 10/21 2 | off Condul con Claus 700/ Dis-41- | | | | | | - | |
| | - | | | oft, Sandy Lean Clay; 70% Plastic 25% Fine-grained Sand, 5% Orga | | | | | | - | - |
| | - | | Dark E | Brown (3/3). | | | | | | - | \vdash |
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| ENG FORM | | | 1 | | | PROJECT | | | HOLE | NO. | |

| | | | | ELEVATION TOP OF HOLE | | | | noie No. r | IAAF-ADA-210 |
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| PRILLING | G LOG (| Cont SI | neet) | 3.0 | | | | Hole No. HA | AF-ADA-210 |
| ROJECT | | | | | INSTALLA | | | | SHEET 2 |
| Northwest | : Alleged [| Disposal | Area | | | LTON AA | F (HAAF) BOX OR | REMAR | OF 2 SHEETS |
| LEVATION | | LEGEND | | CLASSIFICATION OF MATERIALS (Description) | 5 | % CORE RECOV- ERY | SAMPLE NO. f | (Drilling time, water weathering, etc., | er loss, depth |
| а | b | <i></i> | Mot C | d oft, Sandy Lean Clay; 70% Plastic | | e | f | g | |
| | - | | Fines, 2 | 25% Fine-grained Sand, 5% Organ | nic, | | | | |
| | - | | Dark Br | rown (3/3). (continued) | . | | | | - |
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| -7.0 | 10.0 | | | | | | | | |
| | _[| | Wet, So | oft, 70% Plastic Fines, 30% ained Sand, Dark Grey (3/1). | | | | | |
| | | | r ine-gr | allied Salid, Dark Grey (5/1). | | | | | |
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| 0.5 | | | | | | | | | |
| -8.5 | 11.5 | | Wet St | iff, 70% Plastic Fines, 30 Fine-gra | ined | | | | |
| | | | Sand, | Dark Grey (3/1). | | | | | |
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| EODIA | | | | | | PROJECT | | | THOLE NO |
| G FORM IUN 67 | 1836- <i>A</i> | 4 | | | | Northw | est Allege | d Disposal Area | HOLE NO. HAAF-ADA |

| DRILLI | NG LO | _ | VISION | | INSTALLA | | | | SHEET | 1 |
|--------------------------------|------------|------------------|-----------------|--|--------------|--------------------|--------------------|------------------|--|------------|
| | NG LO | <u> </u> | USACE | SPK SACRAMENTO | | LTON AA | | , | of 2 | SHEETS |
| 1. PROJECT | Allamad | Diamaga | 1 4 | | | AND TYPE O | | 3.74 in | | |
| Northwest 2. LOCATION (| | | | | - | M FOR ELEV | ATION SHO | OWN (TBM or MSL) | | |
| N 4,213,4 | | | | | MSL | IEACTI IDED! | e DEGICNIA | ATION OF DRILL | | |
| 3. DRILLING AC | | 0,02. | | | | Push | O DESIGNA | TION OF DIVILL | | |
| VIRONEX | | | | | 13. TOTA | L NO. OF OV | /ERBURDE | N DISTURBED | UNDISTU | RBED |
| 4. HOLE NO. (A file number) | s shown on | drawing title | and | | SAMP | LES TAKEN | | 0 | | 2 |
| 5. NAME OF DI | 311 ED | | | HAAF-ADA-211 | 14. TOTA | L NUMBER C | ORE BOXE | S 0 | | |
| Brian McC | | | | | 15. ELEV | ATION GROU | JND WATER | ₹ 2.8 | 8 | |
| 6. DIRECTION | | | | | 16. DATE | HOLE | ST | ARTED | COMPLETED | |
| ∨ERTICA | AL _ |] INCLINED | | DEG. FROM VERT. | | | | 11/19/2003 | 11/19/ | 2003 |
| 7. THICKNESS | OF OVER | BURDEN | | | | ATION TOP (| | +3.0 | | |
| 8. DEPTH DRIL | LED INTO | ROCK | | | | L CORE REC | COVERY FO | OR BORING | | 80 % |
| 9. TOTAL DEP | | | | 16.0 | 19. GEOL | .OGIST | Ti | m Crummett | | |
| | | | Т | CLASSIFICATION OF MATERIALS | <u></u> | % CORE | BOX OR | RE | EMARKS | |
| ELEVATION a | DEPTH b | LEGEND | | (Description) | | RECOV- ERY e | SAMPLE NO. f | | e, water loss, dep etc., if significan g | |
| +3.0 | 0.0 | | Satura | ited, Organic Clay. | | | | | | |
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| +2.5 | 0.5 | | 3 | 0.01 0.00 0.00 0.00 | 150/ | | | | | |
| 1 | _ | | | Soft Lean Clay; 80% Plastic Fines, Sand, 5% Organic matter. Dark Gre | | | | | | |
| 1 | _ | <i>\\\\\\\</i> | Brown | | , | | | | | |
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| -1.0 | 4.0 | <i>\\\\\\</i> | 4 | | | | | | | <u> </u> |
| | _ | | Moist : | Soft Lean Clay; 90% Plastic Fines, Sand, Tarce Organic matter. Dark (| 10% Grev- | | | | | F |
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| -4.0 | 7.0 | | 7 | | | | | | | Γ |
| | | | Wet, S | Soft Lean Clay, 90% Plastic Fines, | 10% |] | | | | |
| | _ | | Fine S Brown | Sand, Tarce Organic matter. Dark (| Grey- | | | | | Γ |
| | _ | | J SIOWII | (0.2). | | | | | | r |
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| ENG FORM | 1836 | PREVIO | US EDITI | ONS ARE OBSOLETE. | | PROJECT | | | HOLE | NO. |
| MAR 71 | | | | | | Northw | rest Alleg | ed Disposal Area | H# | AAF-ADA-21 |

| DII 1 1814 | 2100 | 0 | 41 | ELEVATION TOP OF HOLE | | | | TIOIC NO. 1 | IAAF-ADA-211 |
|--------------|-----------|----------|----------|--|---------------|-------------------------|--------------------|--|----------------------|
| | 3 LOG (| Cont Sh | neet) | 3.0 | | | | Hole No. HA | |
| DJECT | . Allamad | Diamagal | ۸ | | INSTALLAT | | C (UAAC) | | SHEET 2 |
| iortnwest | Allegea | Disposal | Area | 0 | $\overline{}$ | % CORE | F (HAAF) | REMAR | OF 2 SHEETS |
| EVATION | DEPTH | LEGEND | | CLASSIFICATION OF MATERIALS (Description) | | % CORE RECOV- ERY | SAMPLE NO. f | (Drilling time, wat weathering, etc., | er loss, depth |
| а | b | c | \\/-+ O | d | 00/ | е | f | g | |
| | _ | | Fine Sa | oft Lean Clay; 90% Plastic Fines, 1 and, Tarce Organic matter. Dark 0 | Grev- | | | | |
| | _ | | Brown (| (3/2). (continued) | , | | | | |
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| -6.0 | 9.0 | | | | | | | | |
| | | | Wet to | Moist Sandy Clay; 60% Fine-grain | ed | | | | |
| | _ | | Sand, 4 | 10% Fine to medium-grained Sand rey (4/1). Note: Also found the | , | | | | |
| | _ | | present | ce of Carbonate Shell Fragments. | | | | | |
| | _ | | | | | | | | |
| 7.0 | 10.0 | | | | | | | | |
| -7.0 | 10.0 | | Dry Lo | ose Silty Sand; 70% Fine-grained | | | | | |
| | - | | Sand, 3 | 80% Non-plastic Fines, Brown-Yell | ow | | | | |
| | - | | (6/8). F | Possibly Decomposed Bedrock. | | | | | |
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| -11.0 | 14.0 | V//XV/ | Bedroc | k Matrerial. Refusal at 14 feet. | | | | | |
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| FORM N 67 | 1836- | | | | $\overline{}$ | PROJECT | | | HOLE NO. HAAF-ADA |

| DRILLI | NG LO | _ | VISION | - 0.01/ 0.400.4451/70 | INSTALLA | | | | SHEET | 1 |
|----------------------------|-----------|------------------|----------|---|----------------------|--------------------------|------------------|------------------------------|-------------|----------|
| 1. PROJECT | | | USACE | SPK SACRAMENTO | | LTON AA | | | of 2 | SHEETS |
| Northwest | Alleged | Disposa | l Area | | | AND TYPE O | | 3.74 in DWN (TBM or MSL) | | |
| 2. LOCATION (| | | | | MSL | W FOR ELEV | ATION SHO | JANIN (I BINI OF MISE) | | |
| N 4,213,4 | | 541,852 | .0 | | | FACTURER' | S DESIGNA | TION OF DRILL | | |
| 3. DRILLING AC | | | | | | Push | | u Inioriunnen I | LINIBIOTUB | 252 |
| 4. HOLE NO. (A | | drawing title | and | | 13. TOTAL SAMP | L NO. OF OV LES TAKEN | /EKBUKDEI | N DISTURBED 0 | UNDISTURE 2 | |
| file number) | | | | HAAF-ADA-212 | 14. TOTA | L NUMBER C | ORE BOXE | | | |
| 5. NAME OF DE Brian McC | | | | | 15. ELEV | ATION GROU | JND WATER | | | |
| 6. DIRECTION | | | | | 16. DATE | HOLE | STA | ARTED CC | MPLETED | |
| ∨ERTICA | AL _ |] INCLINED | | DEG. FROM VERT. | | | | 11/18/2003 | 11/18/2 | 003 |
| 7. THICKNESS | OF OVERE | BURDEN | | | | ATION TOP (| | +3.0 | | 20.04 |
| 8. DEPTH DRIL | LED INTO | ROCK | | | 18. TOTA 19. GEOL | CORE REC | OVERY FO | DR BORING | | 80 % |
| 9. TOTAL DEPT | TH OF HOL | .E | | 16.0 | 19. GEOL | 00131 | Ti | m Crummett | | |
| ELEVATION | DEPTH | LEGEND | | CLASSIFICATION OF MATERIALS | 6 | % CORE RECOV- | BOX OR SAMPLE | REMAR (Drilling time, wat | | |
| | | 1 | | (Description) | | ERY | NO. f | weathering, etc., | | |
| +3.0 | 0.0 | Luiu. | 2 Organ | ic Clay with Root Particles. | | e | <u> </u> | g | | |
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| +1.5 | 1.5 | | 3 | | | | | | | - |
| | _ | | Moist, | Soft Lean Clay: 85% Plastic Fine C | lay, | | | | | |
| | _ | <i>\\\\\\\</i> | | ine-grained Sand, 5% Organic Cla ∕ellow-Brown (4/4). Note: Carbona | | | | | | F |
| | _ | <i>\\\\\\\</i> | shells | found at approximately 7 feet. | ıe | | | | | |
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| -5.0 | 8.0 | (/////// | 4 | | | PROJECT | | l | THOLE | NO. |

| DRILLING | LOG | (Cont S | heet) ELEVATION TOP OF HOLE 3.0 | | | Hole No. HAAF-ADA-212 | 1 |
|--------------------|------------|---------------|--|------------------------------|------------------------------|---|----------|
| PROJECT | | • | 5.0 | INSTALLATION | | SHEET 2 | ┨ |
| Northwest | Alleged | Disposal | | HAMILTON AA | F (HAAF) | of 2 sheets | 1 |
| ELEVATION a | DEPTH b | LEGEND | CLASSIFICATION OF MATERIALS (Description) d | % CORE RECOV- ERY e | BOX OR SAMPLE NO. f | REMARKS (Drilling time, water loss, depth weathering, etc., if significant) g | |
| a | | | Wet, Soft, Silt; 60% Non-plastic Fines, 409 Fine-grained Sand, Trace of Organic Clay Grey-Brown (5/2). | % | ' | у | |
| -6.0 | 9.0 | | | | | | L |
| | - - | | Moist, Stiff Lean Clay: 80% Non-plastic Fir Clay, 20% Fine-grained Sand. Grey-Brow (5/2). | ne vn | | | _ |
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| | _ | | | | | | |
| -9.3 | 12.3 | | Moist, Hard Lean Clay: 90% Non-plastic F Clay, 10% Fine-grained Sand. Dark Yellow-Brown (5/4). | Fine | | | E |
| | _ | | | | | | |
| | _ | | | 100 | 212-14 | | <u>-</u> |
| | - | | | | 14.0 15.0 | | |
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